

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: HALO

Report Number: P639492

Luminaire Tested: RL56069FSD2W1EWH -600LM -4000K

Issue Date: 1/25/2023

Test Information

Test Method: LM-79-2019
Report Number: P639492
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2206549B001)
Test Lab:
Issue Date: 1/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: RL56069FSD2W1EWH -600LM -4000K
Description: 5/6IN RETROFIT, 600LM SELECTABLE CCT, MATTE WHITE BAFFLE
Light Source: (1) DEDICATED LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 715.0 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.3
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

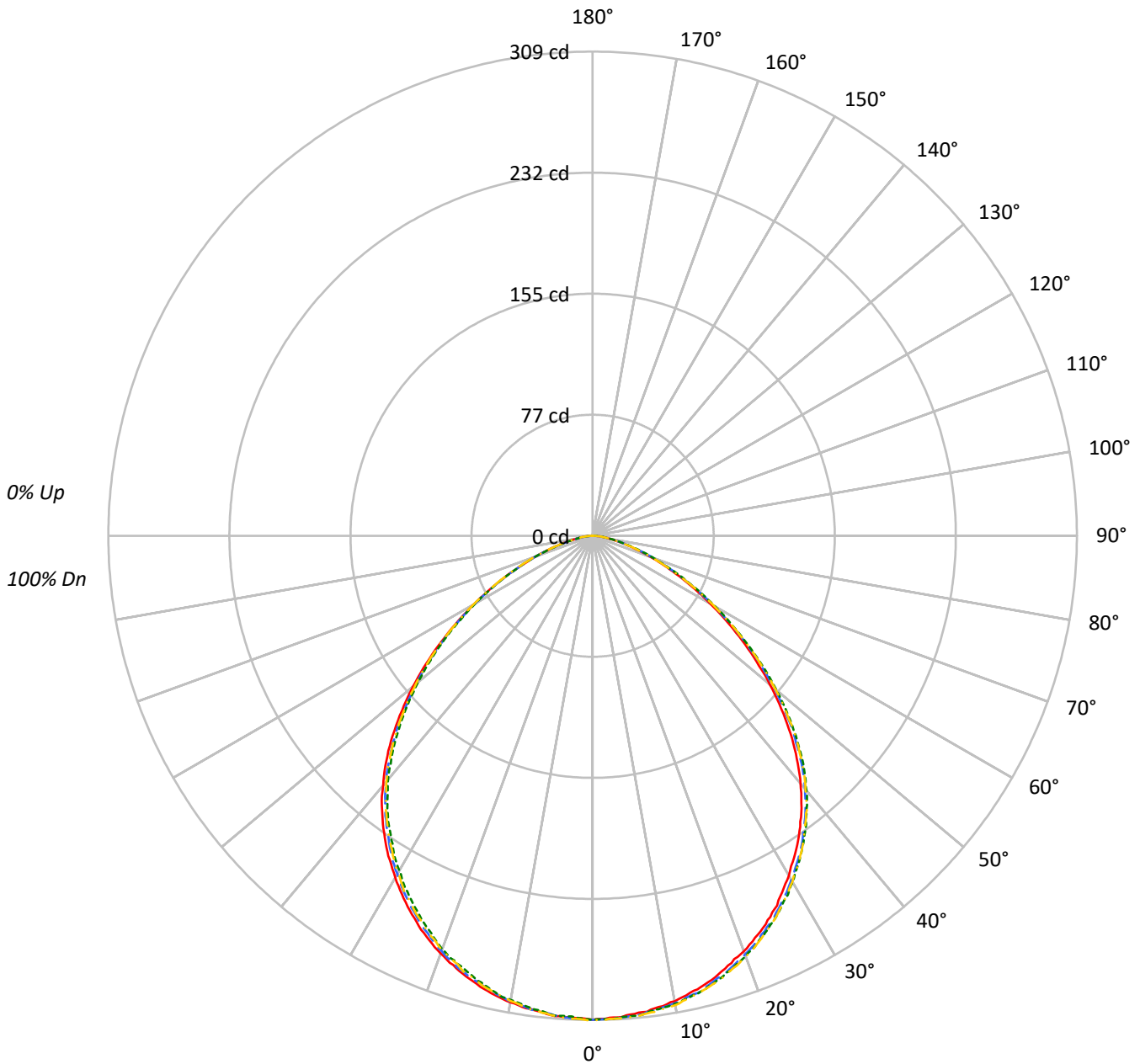
Input Watts (W): 6.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P639492

CATALOG NUMBER: RL56069FSD2W1EWH -600LM -4000K

Luminous Intensity Polar Plot





TEST NUMBER: P639492

CATALOG NUMBER: RL56069FSD2W1EWH -600LM -4000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | |
| RC | 80 | | | | | | | | | 50 | | | | | | | | | 30 | | | | | | | | | 10 | | | | | | | | | 0 |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | | | | | | | | | | | | | | | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | | | | | | | | | | | | | | | |
| 1 | 110 | 106 | 102 | 99 | 108 | 104 | 101 | 97 | 100 | 97 | 94 | 96 | 94 | 92 | 92 | 91 | 89 | 87 | | | | | | | | | | | | | | | | | | | |
| 2 | 101 | 94 | 88 | 83 | 99 | 92 | 87 | 82 | 89 | 84 | 80 | 86 | 82 | 78 | 83 | 79 | 77 | 74 | | | | | | | | | | | | | | | | | | | |
| 3 | 93 | 84 | 76 | 70 | 91 | 82 | 75 | 70 | 79 | 73 | 69 | 76 | 72 | 67 | 74 | 70 | 66 | 64 | | | | | | | | | | | | | | | | | | | |
| 4 | 86 | 75 | 67 | 61 | 84 | 73 | 66 | 60 | 71 | 65 | 59 | 69 | 63 | 59 | 67 | 62 | 58 | 56 | | | | | | | | | | | | | | | | | | | |
| 5 | 79 | 67 | 59 | 53 | 77 | 66 | 58 | 52 | 64 | 57 | 52 | 62 | 56 | 51 | 60 | 55 | 51 | 49 | | | | | | | | | | | | | | | | | | | |
| 6 | 73 | 61 | 53 | 47 | 72 | 60 | 52 | 46 | 58 | 51 | 46 | 57 | 50 | 46 | 55 | 50 | 45 | 43 | | | | | | | | | | | | | | | | | | | |
| 7 | 68 | 55 | 47 | 41 | 67 | 55 | 47 | 41 | 53 | 46 | 41 | 52 | 45 | 41 | 50 | 45 | 40 | 39 | | | | | | | | | | | | | | | | | | | |
| 8 | 64 | 51 | 43 | 37 | 62 | 50 | 42 | 37 | 49 | 42 | 37 | 48 | 41 | 37 | 46 | 41 | 36 | 35 | | | | | | | | | | | | | | | | | | | |
| 9 | 60 | 47 | 39 | 34 | 58 | 46 | 39 | 34 | 45 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 31 | | | | | | | | | | | | | | | | | | | |
| 10 | 56 | 43 | 36 | 31 | 55 | 43 | 35 | 31 | 42 | 35 | 30 | 41 | 35 | 30 | 40 | 34 | 30 | 28 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° | 270° |
|-----|-------|-------|-------|-------|
| 0° | 16934 | 16934 | 16934 | 16934 |
| 5° | 16856 | 16927 | 16900 | 16878 |
| 10° | 16794 | 16883 | 16833 | 16744 |
| 15° | 16663 | 16816 | 16708 | 16566 |
| 20° | 16463 | 16661 | 16551 | 16376 |
| 25° | 16241 | 16447 | 16283 | 15993 |
| 30° | 15851 | 16167 | 15945 | 15623 |
| 35° | 15399 | 15747 | 15506 | 15151 |
| 40° | 14763 | 15186 | 14885 | 14527 |
| 45° | 13839 | 14296 | 13994 | 13560 |
| 50° | 12588 | 13040 | 12750 | 12383 |
| 55° | 11115 | 11507 | 11259 | 11039 |
| 60° | 9528 | 9901 | 9594 | 9473 |
| 65° | 7887 | 8198 | 7874 | 7861 |
| 70° | 6299 | 6620 | 6187 | 6155 |
| 75° | 4766 | 5083 | 4575 | 4406 |
| 80° | 3536 | 3757 | 3220 | 3062 |
| 85° | 3145 | 3271 | 2579 | 2390 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 112.5°
 Vertical Angle: 45°
 Luminance: 14312 cd/sqm



TEST NUMBER: P639492

CATALOG NUMBER: RL56069FSD2W1EWH -600LM -4000K

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 29.2 | 4.1 |
| 10°-20° | 83.0 | 11.6 |
| 20°-30° | 123.7 | 17.3 |
| 30°-40° | 144.4 | 20.2 |
| 40°-50° | 138.3 | 19.3 |
| 50°-60° | 105.4 | 14.7 |
| 60°-70° | 61.4 | 8.6 |
| 70°-80° | 24.4 | 3.4 |
| 80°-90° | 5.2 | 0.7 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 235.9 | 33.0 |
| 0°-40° | 380.2 | 53.2 |
| 0°-60° | 624.0 | 87.3 |
| 0°-90° | 715.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 715.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|-----|-----|-----|------|------|------|------|
| 0° | 309 | 309 | 309 | 309 | 309 | |
| 5° | 306 | 308 | 307 | 307 | 306 | 29 |
| 15° | 294 | 296 | 294 | 292 | 294 | 83 |
| 25° | 268 | 272 | 269 | 264 | 268 | 123 |
| 35° | 230 | 235 | 232 | 226 | 230 | 144 |
| 45° | 178 | 184 | 180 | 175 | 178 | 137 |
| 55° | 116 | 120 | 118 | 116 | 116 | 104 |
| 65° | 61 | 63 | 61 | 61 | 61 | 61 |
| 75° | 22 | 24 | 22 | 21 | 22 | 25 |
| 85° | 5 | 5 | 4 | 4 | 5 | 6 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P639492

CATALOG NUMBER: RL56069FSD2W1EWH -600LM -4000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 0° | 308.9 | 308.9 | 308.9 | 308.9 | 308.9 | 308.9 | 308.9 | 308.9 | 308.9 | 308.9 | 308.9 |
| 0.5° | 308.5 | 308.9 | 308.9 | 308.9 | 308.7 | 308.9 | 309.1 | 308.6 | 308.5 | 308.8 | 308.8 |
| 1° | 308.4 | 308.8 | 308.6 | 308.7 | 308.7 | 308.8 | 309.4 | 309.0 | 308.2 | 308.8 | 308.6 |
| 1.5° | 308.4 | 308.7 | 308.5 | 308.9 | 308.6 | 308.7 | 309.1 | 309.2 | 307.9 | 308.6 | 308.4 |
| 2° | 307.8 | 308.6 | 308.3 | 308.9 | 308.6 | 308.2 | 308.5 | 309.1 | 307.9 | 308.7 | 308.6 |
| 2.5° | 307.8 | 308.9 | 308.4 | 308.7 | 308.5 | 308.5 | 308.5 | 308.5 | 307.8 | 308.5 | 308.4 |
| 3° | 307.8 | 308.6 | 308.4 | 309.0 | 308.1 | 308.6 | 308.5 | 308.5 | 307.7 | 308.2 | 307.8 |
| 3.5° | 307.6 | 308.2 | 308.0 | 309.0 | 307.7 | 308.6 | 308.5 | 308.6 | 307.7 | 308.4 | 308.0 |
| 4° | 306.8 | 307.9 | 307.9 | 308.6 | 307.7 | 308.7 | 308.4 | 307.8 | 307.3 | 308.7 | 307.1 |
| 4.5° | 306.4 | 307.6 | 307.6 | 307.9 | 307.6 | 308.6 | 308.2 | 307.5 | 307.6 | 308.2 | 307.1 |
| 5° | 306.3 | 307.7 | 307.2 | 307.8 | 307.6 | 308.1 | 307.9 | 307.5 | 307.1 | 307.2 | 306.4 |
| 5.5° | 305.7 | 307.6 | 307.2 | 307.6 | 307.6 | 307.3 | 307.8 | 307.3 | 306.6 | 307.1 | 306.0 |
| 6° | 305.7 | 307.0 | 307.0 | 307.1 | 307.3 | 307.1 | 307.3 | 306.9 | 305.9 | 307.0 | 305.9 |
| 6.5° | 305.7 | 306.1 | 306.0 | 306.9 | 306.3 | 306.6 | 306.8 | 306.3 | 305.4 | 306.0 | 305.7 |
| 7° | 304.8 | 305.9 | 305.9 | 306.4 | 305.5 | 306.3 | 306.5 | 306.0 | 305.1 | 305.9 | 305.2 |
| 7.5° | 304.2 | 305.1 | 305.3 | 306.2 | 305.1 | 305.5 | 306.4 | 305.8 | 304.6 | 305.3 | 304.8 |
| 8° | 303.7 | 304.6 | 304.8 | 305.4 | 305.1 | 305.0 | 305.7 | 305.1 | 304.5 | 304.5 | 303.9 |
| 8.5° | 303.5 | 304.2 | 304.2 | 305.3 | 304.4 | 305.0 | 305.2 | 305.0 | 304.0 | 304.1 | 303.3 |
| 9° | 302.7 | 304.1 | 304.0 | 304.4 | 304.3 | 304.5 | 304.7 | 304.3 | 303.2 | 303.5 | 302.8 |
| 9.5° | 301.8 | 303.5 | 303.4 | 304.2 | 303.9 | 303.8 | 304.6 | 304.0 | 302.7 | 303.4 | 302.3 |
| 10° | 301.7 | 302.6 | 303.0 | 303.6 | 303.3 | 303.3 | 304.1 | 303.1 | 302.4 | 302.5 | 301.9 |
| 10.5° | 300.7 | 302.4 | 302.2 | 302.7 | 303.2 | 303.1 | 303.5 | 302.5 | 301.9 | 302.3 | 300.9 |
| 11° | 300.0 | 301.4 | 301.7 | 302.6 | 301.9 | 301.9 | 302.3 | 301.9 | 301.1 | 300.8 | 300.0 |
| 11.5° | 299.4 | 300.6 | 300.7 | 301.4 | 301.4 | 301.3 | 301.9 | 300.9 | 300.4 | 300.6 | 299.4 |
| 12° | 298.3 | 300.0 | 300.0 | 300.7 | 300.8 | 301.3 | 301.5 | 300.3 | 299.7 | 299.7 | 298.7 |
| 12.5° | 297.4 | 299.2 | 299.5 | 300.1 | 300.0 | 300.8 | 300.3 | 299.8 | 299.0 | 299.1 | 297.8 |
| 13° | 297.2 | 298.4 | 299.5 | 299.2 | 299.7 | 299.9 | 299.7 | 298.7 | 298.0 | 298.7 | 297.1 |
| 13.5° | 296.1 | 297.1 | 298.1 | 298.7 | 298.7 | 299.1 | 298.8 | 298.3 | 297.4 | 297.5 | 295.9 |
| 14° | 295.3 | 296.4 | 297.0 | 297.6 | 298.0 | 298.2 | 298.1 | 297.4 | 296.6 | 296.1 | 295.1 |
| 14.5° | 294.3 | 296.1 | 296.1 | 297.1 | 296.8 | 297.8 | 297.3 | 296.6 | 295.4 | 295.5 | 293.9 |
| 15° | 293.6 | 295.1 | 295.2 | 296.3 | 296.3 | 296.4 | 296.3 | 295.5 | 294.4 | 294.3 | 293.4 |
| 15.5° | 292.5 | 293.5 | 293.9 | 295.5 | 295.0 | 295.4 | 295.6 | 294.5 | 293.5 | 293.4 | 292.5 |
| 16° | 291.2 | 292.5 | 293.0 | 294.2 | 294.3 | 294.5 | 294.7 | 293.8 | 292.7 | 292.1 | 291.4 |
| 16.5° | 290.0 | 291.8 | 292.1 | 293.0 | 293.2 | 293.2 | 293.7 | 292.8 | 291.6 | 291.3 | 290.1 |
| 17° | 289.0 | 290.3 | 291.4 | 292.3 | 291.7 | 292.6 | 292.2 | 291.4 | 290.5 | 290.1 | 289.4 |
| 17.5° | 287.6 | 289.9 | 290.0 | 290.7 | 291.1 | 291.5 | 291.4 | 290.5 | 289.4 | 288.9 | 288.4 |
| 18° | 286.7 | 288.5 | 288.9 | 289.4 | 290.0 | 290.0 | 290.2 | 290.2 | 288.0 | 288.2 | 287.0 |
| 18.5° | 284.8 | 286.7 | 287.8 | 289.3 | 288.6 | 289.3 | 289.4 | 288.5 | 287.4 | 287.1 | 285.7 |
| 19° | 284.2 | 285.8 | 286.5 | 287.8 | 287.8 | 288.3 | 288.3 | 287.2 | 286.0 | 285.5 | 284.7 |
| 19.5° | 283.2 | 284.7 | 285.7 | 286.1 | 286.6 | 286.9 | 286.9 | 286.2 | 284.7 | 284.2 | 283.4 |
| 20° | 282.2 | 284.1 | 284.4 | 285.2 | 285.6 | 285.6 | 285.7 | 284.6 | 283.7 | 283.5 | 281.9 |
| 20.5° | 281.0 | 282.6 | 283.3 | 284.0 | 284.0 | 284.4 | 284.8 | 283.4 | 282.3 | 281.7 | 281.0 |
| 21° | 279.4 | 281.6 | 281.9 | 282.6 | 283.1 | 283.2 | 283.8 | 282.4 | 281.2 | 280.6 | 279.2 |



TEST NUMBER: P639492

CATALOG NUMBER: RL56069FSD2W1EWH -600LM -4000K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 22.5° | 275.5 | 277.4 | 277.9 | 279.3 | 278.8 | 279.5 | 279.4 | 278.2 | 277.0 | 276.4 | 274.7 |
| 23° | 274.2 | 275.8 | 276.3 | 277.4 | 278.0 | 278.4 | 277.8 | 276.9 | 275.4 | 274.6 | 273.5 |
| 23.5° | 272.8 | 274.5 | 275.3 | 276.1 | 276.2 | 277.0 | 276.4 | 275.5 | 274.3 | 273.1 | 272.3 |
| 24° | 271.5 | 272.8 | 273.5 | 274.3 | 274.9 | 275.5 | 275.0 | 274.1 | 272.6 | 271.9 | 270.6 |
| 24.5° | 269.4 | 271.2 | 272.2 | 273.0 | 273.2 | 274.0 | 273.6 | 272.4 | 270.7 | 270.7 | 268.8 |
| 25° | 268.5 | 269.7 | 271.2 | 271.5 | 271.9 | 272.2 | 272.0 | 271.0 | 269.2 | 268.8 | 267.0 |
| 25.5° | 266.3 | 268.2 | 269.3 | 270.2 | 270.5 | 270.4 | 270.5 | 269.2 | 267.8 | 266.7 | 265.3 |
| 26° | 264.9 | 266.5 | 267.5 | 268.5 | 269.0 | 269.0 | 268.9 | 267.4 | 266.1 | 265.3 | 264.0 |
| 26.5° | 263.8 | 264.8 | 266.0 | 266.7 | 267.3 | 267.7 | 267.0 | 265.8 | 264.5 | 263.9 | 262.1 |
| 27° | 261.1 | 263.4 | 264.1 | 265.3 | 265.5 | 265.9 | 265.4 | 264.6 | 262.6 | 262.0 | 260.4 |
| 27.5° | 259.4 | 261.9 | 262.4 | 263.5 | 263.6 | 264.0 | 263.9 | 262.7 | 261.0 | 260.3 | 258.7 |
| 28° | 257.6 | 259.7 | 260.6 | 261.9 | 261.9 | 262.2 | 261.8 | 260.8 | 259.2 | 258.7 | 257.0 |
| 28.5° | 255.7 | 257.8 | 259.2 | 260.0 | 260.9 | 260.3 | 260.2 | 258.9 | 257.5 | 256.8 | 255.1 |
| 29° | 253.9 | 256.0 | 257.4 | 258.0 | 258.9 | 258.6 | 258.4 | 257.3 | 255.5 | 254.9 | 253.2 |
| 29.5° | 252.3 | 254.3 | 255.4 | 256.5 | 256.7 | 256.7 | 256.5 | 255.4 | 253.9 | 252.7 | 251.4 |
| 30° | 250.4 | 252.8 | 253.6 | 254.7 | 255.4 | 255.0 | 254.9 | 253.5 | 251.9 | 250.7 | 249.1 |
| 30.5° | 248.2 | 250.9 | 251.9 | 252.8 | 253.4 | 253.2 | 252.7 | 251.6 | 249.9 | 249.1 | 247.6 |
| 31° | 246.0 | 248.5 | 249.9 | 250.9 | 251.0 | 251.3 | 250.9 | 249.7 | 248.0 | 247.2 | 245.6 |
| 31.5° | 244.2 | 247.0 | 247.9 | 249.0 | 249.3 | 249.3 | 249.2 | 247.8 | 246.0 | 245.5 | 243.9 |
| 32° | 242.4 | 245.1 | 246.1 | 246.9 | 247.4 | 247.9 | 247.4 | 245.9 | 244.2 | 243.7 | 241.7 |
| 32.5° | 240.5 | 243.0 | 244.2 | 245.1 | 245.6 | 245.5 | 245.5 | 243.9 | 242.5 | 241.2 | 239.6 |
| 33° | 238.6 | 240.8 | 242.3 | 243.0 | 243.6 | 243.6 | 243.3 | 241.8 | 240.4 | 239.2 | 237.6 |
| 33.5° | 236.5 | 239.0 | 240.4 | 241.1 | 241.7 | 241.6 | 241.5 | 239.7 | 238.3 | 237.1 | 235.3 |
| 34° | 234.6 | 236.9 | 238.4 | 239.3 | 239.4 | 239.4 | 239.4 | 237.9 | 236.3 | 235.0 | 233.0 |
| 34.5° | 232.4 | 234.4 | 236.3 | 237.3 | 237.6 | 237.3 | 237.3 | 236.1 | 234.0 | 232.8 | 230.7 |
| 35° | 230.1 | 232.7 | 234.0 | 235.4 | 235.3 | 235.5 | 234.8 | 233.8 | 231.7 | 230.7 | 228.7 |
| 35.5° | 228.1 | 230.5 | 231.8 | 232.8 | 233.2 | 233.5 | 232.7 | 232.2 | 229.8 | 228.8 | 226.7 |
| 36° | 225.5 | 228.2 | 229.8 | 230.6 | 231.3 | 231.6 | 230.3 | 229.5 | 227.6 | 226.5 | 224.3 |
| 36.5° | 223.6 | 226.1 | 227.4 | 228.6 | 229.1 | 229.2 | 228.2 | 226.9 | 225.2 | 224.3 | 222.4 |
| 37° | 221.3 | 223.5 | 225.4 | 226.4 | 226.1 | 226.9 | 226.0 | 224.9 | 222.9 | 221.9 | 219.9 |
| 37.5° | 219.0 | 221.5 | 222.9 | 223.6 | 224.1 | 223.9 | 223.5 | 222.5 | 220.7 | 219.4 | 217.5 |
| 38° | 216.2 | 218.9 | 220.6 | 221.3 | 221.7 | 222.0 | 222.1 | 219.9 | 218.6 | 217.0 | 214.9 |
| 38.5° | 213.9 | 216.6 | 217.7 | 218.7 | 219.8 | 219.3 | 219.4 | 217.4 | 216.2 | 214.4 | 212.7 |
| 39° | 211.6 | 214.0 | 215.6 | 216.4 | 217.3 | 217.5 | 216.6 | 215.4 | 213.8 | 212.5 | 210.1 |
| 39.5° | 208.9 | 211.7 | 213.2 | 214.2 | 215.0 | 215.1 | 213.9 | 212.9 | 210.7 | 209.5 | 207.5 |
| 40° | 206.3 | 209.7 | 210.8 | 211.8 | 212.2 | 212.2 | 211.3 | 210.4 | 208.0 | 207.4 | 205.1 |
| 40.5° | 204.0 | 206.6 | 208.3 | 209.1 | 209.3 | 209.6 | 209.1 | 207.2 | 205.6 | 205.1 | 202.6 |
| 41° | 201.2 | 203.7 | 205.4 | 206.6 | 207.2 | 207.3 | 206.5 | 205.2 | 202.8 | 202.0 | 200.1 |
| 41.5° | 198.5 | 200.9 | 202.7 | 203.9 | 204.5 | 204.6 | 203.7 | 202.9 | 200.5 | 199.0 | 197.0 |
| 42° | 195.7 | 198.4 | 200.2 | 201.1 | 201.9 | 201.3 | 201.0 | 199.5 | 197.7 | 196.5 | 194.4 |
| 42.5° | 192.9 | 195.4 | 197.3 | 198.0 | 199.5 | 199.0 | 198.0 | 196.8 | 194.8 | 193.9 | 191.5 |
| 43° | 190.2 | 192.6 | 194.2 | 195.3 | 196.5 | 196.0 | 195.4 | 193.9 | 192.0 | 190.9 | 188.8 |
| 43.5° | 187.3 | 189.7 | 191.4 | 192.6 | 193.5 | 193.3 | 192.2 | 190.9 | 189.3 | 188.0 | 186.0 |



TEST NUMBER: P639492

CATALOG NUMBER: RL56069FSD2W1EWH -600LM -4000K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 45° | 178.5 | 180.9 | 182.8 | 183.4 | 184.4 | 184.6 | 183.5 | 182.3 | 180.5 | 179.1 | 177.4 |
| 45.5° | 175.5 | 177.9 | 179.4 | 180.6 | 181.6 | 181.5 | 180.9 | 179.3 | 177.3 | 176.1 | 174.5 |
| 46° | 172.5 | 174.7 | 176.7 | 177.8 | 178.3 | 178.3 | 177.6 | 176.1 | 174.4 | 173.2 | 171.5 |
| 46.5° | 169.3 | 171.6 | 173.6 | 174.7 | 175.6 | 175.2 | 174.5 | 173.1 | 171.3 | 170.0 | 168.3 |
| 47° | 166.6 | 168.5 | 170.2 | 171.1 | 172.1 | 172.3 | 171.1 | 169.9 | 168.4 | 167.0 | 165.4 |
| 47.5° | 163.2 | 165.6 | 167.2 | 167.8 | 169.0 | 169.0 | 168.1 | 167.0 | 164.8 | 164.2 | 162.0 |
| 48° | 160.2 | 162.3 | 164.2 | 164.6 | 166.1 | 165.7 | 165.0 | 163.9 | 162.0 | 161.1 | 159.1 |
| 48.5° | 157.2 | 159.2 | 160.8 | 161.7 | 162.6 | 162.5 | 162.1 | 160.5 | 159.0 | 158.0 | 156.0 |
| 49° | 153.9 | 155.9 | 157.6 | 158.5 | 159.4 | 159.2 | 158.4 | 157.4 | 156.0 | 154.8 | 153.0 |
| 49.5° | 150.9 | 152.7 | 154.5 | 155.5 | 156.3 | 156.2 | 155.4 | 154.3 | 152.8 | 151.6 | 149.9 |
| 50° | 147.6 | 149.4 | 151.2 | 151.9 | 152.9 | 153.2 | 152.0 | 150.9 | 149.5 | 148.4 | 146.9 |
| 50.5° | 144.7 | 146.6 | 147.9 | 149.0 | 149.6 | 149.8 | 148.8 | 147.6 | 146.3 | 145.3 | 143.8 |
| 51° | 141.4 | 143.5 | 144.6 | 145.8 | 146.6 | 146.0 | 145.8 | 144.6 | 143.2 | 142.5 | 140.9 |
| 51.5° | 138.3 | 140.3 | 141.7 | 142.4 | 143.6 | 143.1 | 142.6 | 141.4 | 140.1 | 138.8 | 137.6 |
| 52° | 134.8 | 136.9 | 138.3 | 139.4 | 140.4 | 139.9 | 139.2 | 138.3 | 137.1 | 136.0 | 134.4 |
| 52.5° | 131.9 | 133.4 | 135.0 | 136.0 | 136.8 | 136.6 | 136.1 | 135.2 | 133.8 | 132.9 | 131.4 |
| 53° | 128.8 | 130.4 | 131.8 | 132.8 | 133.3 | 133.8 | 132.8 | 131.7 | 130.4 | 129.5 | 128.4 |
| 53.5° | 125.6 | 127.2 | 128.8 | 129.7 | 130.3 | 130.2 | 129.6 | 128.6 | 127.3 | 126.6 | 125.4 |
| 54° | 122.5 | 124.0 | 125.8 | 126.4 | 126.9 | 126.9 | 126.2 | 125.6 | 124.3 | 123.3 | 122.2 |
| 54.5° | 119.7 | 121.1 | 122.4 | 123.4 | 123.8 | 123.8 | 123.2 | 122.5 | 121.1 | 120.3 | 119.1 |
| 55° | 116.3 | 117.8 | 119.3 | 120.2 | 120.4 | 120.5 | 120.0 | 119.1 | 117.8 | 117.0 | 116.0 |
| 55.5° | 113.3 | 114.7 | 116.1 | 117.0 | 117.4 | 117.5 | 116.7 | 115.9 | 114.7 | 113.9 | 113.1 |
| 56° | 110.3 | 111.6 | 113.1 | 114.0 | 114.3 | 114.2 | 113.4 | 112.9 | 111.6 | 110.8 | 110.1 |
| 56.5° | 107.3 | 108.7 | 110.0 | 110.9 | 111.3 | 111.1 | 110.4 | 109.7 | 108.7 | 108.0 | 107.1 |
| 57° | 104.3 | 105.5 | 107.1 | 107.7 | 108.2 | 107.9 | 107.6 | 106.5 | 105.5 | 104.8 | 104.2 |
| 57.5° | 101.2 | 102.6 | 104.2 | 104.7 | 105.0 | 104.9 | 104.3 | 103.4 | 102.4 | 101.8 | 101.1 |
| 58° | 98.2 | 99.7 | 101.1 | 101.8 | 102.1 | 101.9 | 101.2 | 100.5 | 99.4 | 98.9 | 98.1 |
| 58.5° | 95.4 | 96.5 | 98.0 | 98.7 | 99.3 | 99.0 | 98.1 | 97.3 | 96.3 | 95.8 | 95.2 |
| 59° | 92.5 | 93.6 | 95.1 | 95.5 | 96.3 | 96.0 | 95.2 | 94.5 | 93.4 | 92.8 | 92.2 |
| 59.5° | 89.7 | 90.7 | 92.0 | 92.8 | 93.0 | 92.7 | 92.4 | 91.3 | 90.3 | 90.0 | 89.5 |
| 60° | 86.9 | 87.7 | 89.2 | 90.0 | 90.3 | 89.8 | 89.3 | 88.5 | 87.5 | 87.2 | 86.7 |
| 60.5° | 84.1 | 85.0 | 86.4 | 87.0 | 87.5 | 87.2 | 86.4 | 85.6 | 84.7 | 84.3 | 83.8 |
| 61° | 81.3 | 82.2 | 83.7 | 84.3 | 84.7 | 84.2 | 83.4 | 82.6 | 81.8 | 81.4 | 81.0 |
| 61.5° | 78.7 | 79.4 | 80.8 | 81.4 | 81.8 | 81.3 | 80.6 | 79.8 | 79.0 | 78.5 | 78.1 |
| 62° | 75.9 | 76.7 | 78.0 | 78.6 | 79.2 | 78.5 | 77.8 | 77.0 | 76.2 | 75.8 | 75.5 |
| 62.5° | 73.2 | 74.1 | 75.2 | 75.9 | 76.4 | 75.8 | 75.0 | 74.5 | 73.5 | 73.1 | 72.9 |
| 63° | 70.6 | 71.5 | 72.6 | 73.2 | 73.6 | 72.9 | 72.4 | 71.5 | 70.9 | 70.5 | 70.1 |
| 63.5° | 68.0 | 68.9 | 70.0 | 70.7 | 70.8 | 70.4 | 69.6 | 68.9 | 68.3 | 68.0 | 67.7 |
| 64° | 65.5 | 66.4 | 67.5 | 68.2 | 68.3 | 67.9 | 67.1 | 66.2 | 65.7 | 65.4 | 65.3 |
| 64.5° | 63.1 | 63.9 | 65.0 | 65.6 | 65.8 | 65.3 | 64.6 | 63.8 | 63.1 | 62.9 | 62.6 |
| 65° | 60.8 | 61.5 | 62.5 | 63.0 | 63.2 | 62.8 | 62.0 | 61.4 | 60.7 | 60.6 | 60.1 |
| 65.5° | 58.4 | 59.0 | 60.2 | 60.6 | 60.8 | 60.3 | 59.6 | 58.9 | 58.2 | 57.9 | 57.9 |
| 66° | 56.0 | 56.8 | 57.8 | 58.2 | 58.4 | 57.8 | 57.1 | 56.3 | 55.8 | 55.6 | 55.3 |



TEST NUMBER: P639492

CATALOG NUMBER: RL56069FSD2W1EWH -600LM -4000K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|------|-------|------|-------|------|--------|------|--------|------|--------|------|
| 67.5° | 49.5 | 50.2 | 51.2 | 51.6 | 51.3 | 50.9 | 50.3 | 49.6 | 48.9 | 48.7 | 48.6 |
| 68° | 47.4 | 48.1 | 48.9 | 49.5 | 49.2 | 48.8 | 48.1 | 47.2 | 46.7 | 46.6 | 46.4 |
| 68.5° | 45.4 | 46.1 | 46.8 | 47.3 | 47.1 | 46.6 | 45.8 | 45.1 | 44.5 | 44.5 | 44.2 |
| 69° | 43.3 | 44.0 | 44.7 | 45.2 | 45.1 | 44.6 | 43.8 | 43.1 | 42.5 | 42.3 | 42.1 |
| 69.5° | 41.3 | 42.0 | 42.7 | 43.2 | 43.2 | 42.6 | 41.8 | 41.0 | 40.5 | 40.3 | 40.1 |
| 70° | 39.3 | 40.0 | 40.9 | 41.1 | 41.3 | 40.7 | 39.9 | 39.2 | 38.6 | 38.4 | 38.3 |
| 70.5° | 37.5 | 38.1 | 38.9 | 39.2 | 39.3 | 38.8 | 38.1 | 37.3 | 36.8 | 36.5 | 36.4 |
| 71° | 35.6 | 36.3 | 36.9 | 37.4 | 37.5 | 37.0 | 36.2 | 35.5 | 34.9 | 34.7 | 34.5 |
| 71.5° | 33.7 | 34.5 | 35.1 | 35.4 | 35.6 | 35.1 | 34.3 | 33.7 | 33.0 | 32.7 | 32.7 |
| 72° | 32.0 | 32.6 | 33.2 | 33.6 | 33.9 | 33.3 | 32.5 | 31.9 | 31.2 | 31.0 | 30.9 |
| 72.5° | 30.1 | 30.7 | 31.5 | 31.7 | 32.0 | 31.6 | 30.8 | 30.1 | 29.6 | 29.3 | 29.1 |
| 73° | 28.4 | 29.1 | 29.7 | 29.9 | 30.3 | 29.8 | 29.1 | 28.4 | 27.9 | 27.6 | 27.4 |
| 73.5° | 26.8 | 27.5 | 28.0 | 28.3 | 28.7 | 28.2 | 27.4 | 26.7 | 26.2 | 25.9 | 25.7 |
| 74° | 25.4 | 25.9 | 26.5 | 26.6 | 27.2 | 26.5 | 25.8 | 25.2 | 24.6 | 24.3 | 24.0 |
| 74.5° | 23.8 | 24.5 | 24.9 | 25.1 | 25.5 | 24.9 | 24.3 | 23.6 | 23.0 | 22.8 | 22.6 |
| 75° | 22.5 | 23.0 | 23.5 | 23.6 | 24.0 | 23.5 | 22.8 | 22.1 | 21.6 | 21.2 | 21.2 |
| 75.5° | 21.0 | 21.6 | 22.1 | 22.1 | 22.5 | 22.1 | 21.3 | 20.8 | 20.1 | 19.9 | 19.8 |
| 76° | 19.7 | 20.2 | 20.6 | 20.7 | 21.1 | 20.6 | 19.9 | 19.4 | 18.8 | 18.5 | 18.4 |
| 76.5° | 18.4 | 19.0 | 19.3 | 19.4 | 19.8 | 19.3 | 18.6 | 18.0 | 17.4 | 17.2 | 17.0 |
| 77° | 17.2 | 17.7 | 18.1 | 18.2 | 18.4 | 18.0 | 17.3 | 16.7 | 16.2 | 15.9 | 15.8 |
| 77.5° | 16.0 | 16.5 | 16.9 | 16.9 | 17.2 | 16.7 | 16.1 | 15.6 | 15.0 | 14.7 | 14.6 |
| 78° | 14.9 | 15.4 | 15.7 | 15.8 | 16.0 | 15.6 | 15.0 | 14.5 | 14.0 | 13.6 | 13.5 |
| 78.5° | 13.9 | 14.4 | 14.7 | 14.7 | 14.9 | 14.4 | 13.9 | 13.4 | 12.9 | 12.7 | 12.5 |
| 79° | 13.0 | 13.4 | 13.6 | 13.6 | 13.8 | 13.4 | 12.8 | 12.6 | 12.0 | 11.7 | 11.6 |
| 79.5° | 12.1 | 12.6 | 12.8 | 12.8 | 12.7 | 12.5 | 12.1 | 11.5 | 11.1 | 10.8 | 10.6 |
| 80° | 11.2 | 11.6 | 11.9 | 11.9 | 11.9 | 11.6 | 11.1 | 10.6 | 10.2 | 10.0 | 9.8 |
| 80.5° | 10.4 | 10.8 | 11.1 | 11.0 | 11.0 | 10.7 | 10.3 | 9.9 | 9.5 | 9.2 | 9.0 |
| 81° | 9.7 | 10.1 | 10.2 | 10.2 | 10.2 | 9.9 | 9.5 | 9.1 | 8.7 | 8.5 | 8.3 |
| 81.5° | 8.9 | 9.3 | 9.5 | 9.5 | 9.3 | 9.1 | 8.7 | 8.4 | 8.0 | 7.8 | 7.7 |
| 82° | 8.3 | 8.6 | 8.8 | 8.7 | 8.6 | 8.4 | 8.0 | 7.7 | 7.5 | 7.3 | 7.1 |
| 82.5° | 7.7 | 8.0 | 8.2 | 8.1 | 7.9 | 7.7 | 7.5 | 7.1 | 6.9 | 6.7 | 6.5 |
| 83° | 7.1 | 7.4 | 7.6 | 7.6 | 7.4 | 7.1 | 6.9 | 6.7 | 6.3 | 6.1 | 5.9 |
| 83.5° | 6.6 | 6.8 | 7.0 | 7.0 | 6.8 | 6.6 | 6.4 | 6.0 | 5.8 | 5.5 | 5.3 |
| 84° | 6.1 | 6.3 | 6.5 | 6.5 | 6.3 | 6.1 | 5.8 | 5.5 | 5.2 | 5.0 | 4.8 |
| 84.5° | 5.5 | 5.8 | 6.0 | 6.0 | 5.8 | 5.6 | 5.3 | 5.0 | 4.7 | 4.4 | 4.2 |
| 85° | 5.0 | 5.2 | 5.5 | 5.5 | 5.2 | 5.1 | 4.7 | 4.5 | 4.1 | 3.9 | 3.6 |
| 85.5° | 4.4 | 4.7 | 4.9 | 4.9 | 4.7 | 4.6 | 4.3 | 3.9 | 3.5 | 3.4 | 3.1 |
| 86° | 3.9 | 4.2 | 4.4 | 4.4 | 4.2 | 4.0 | 3.8 | 3.4 | 3.1 | 2.8 | 2.8 |
| 86.5° | 3.3 | 3.7 | 3.9 | 3.9 | 3.7 | 3.5 | 3.3 | 2.9 | 2.8 | 2.3 | 2.1 |
| 87° | 2.8 | 3.2 | 3.3 | 3.4 | 3.3 | 3.1 | 2.8 | 2.4 | 2.1 | 1.8 | 1.5 |
| 87.5° | 2.3 | 2.7 | 2.9 | 2.9 | 2.8 | 2.7 | 2.2 | 2.0 | 1.6 | 1.3 | 1.1 |
| 88° | 1.8 | 2.1 | 2.4 | 2.4 | 2.2 | 2.1 | 1.7 | 1.4 | 1.1 | 0.8 | 0.6 |
| 88.5° | 1.4 | 1.7 | 1.9 | 1.9 | 1.7 | 1.5 | 1.3 | 1.0 | 0.6 | 0.3 | 0.3 |



TEST NUMBER: P639492
CATALOG NUMBER: RL56069FSD2W1EWH -600LM -4000K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-----|-----|-------|-----|-------|-----|--------|------|--------|------|--------|------|
| 90° | 0.1 | 0.3 | 0.5 | 0.5 | 0.4 | 0.3 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |

TEST NUMBER: P639492

CATALOG NUMBER: RL56069FSD2W1EWH -600LM -4000K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|-------|--------|-------|--------|-------|
| 0° | 308.9 | 308.9 | 308.9 | 308.9 | 308.9 | 308.9 |
| 0.5° | 308.6 | 308.6 | 308.9 | 309.3 | 308.5 | 308.5 |
| 1° | 308.4 | 308.2 | 308.4 | 308.9 | 308.6 | 308.4 |
| 1.5° | 308.3 | 308.0 | 308.2 | 308.5 | 309.0 | 308.4 |
| 2° | 308.2 | 307.7 | 308.2 | 308.5 | 309.0 | 307.8 |
| 2.5° | 307.7 | 307.1 | 307.9 | 308.6 | 308.4 | 307.8 |
| 3° | 307.7 | 307.1 | 307.6 | 308.2 | 308.0 | 307.8 |
| 3.5° | 307.7 | 306.9 | 307.6 | 308.0 | 307.8 | 307.6 |
| 4° | 307.5 | 307.1 | 307.2 | 307.6 | 307.7 | 306.8 |
| 4.5° | 307.3 | 307.1 | 307.3 | 307.4 | 307.2 | 306.4 |
| 5° | 307.5 | 306.7 | 306.3 | 307.0 | 306.7 | 306.3 |
| 5.5° | 307.1 | 305.9 | 306.2 | 306.3 | 306.0 | 305.7 |
| 6° | 305.7 | 305.2 | 305.4 | 306.2 | 306.0 | 305.7 |
| 6.5° | 305.0 | 304.7 | 305.4 | 305.5 | 305.0 | 305.7 |
| 7° | 304.6 | 304.6 | 304.9 | 305.0 | 304.8 | 304.8 |
| 7.5° | 304.3 | 303.8 | 303.6 | 304.8 | 304.4 | 304.2 |
| 8° | 304.2 | 303.4 | 303.2 | 304.0 | 304.0 | 303.7 |
| 8.5° | 303.1 | 302.5 | 302.7 | 303.4 | 303.5 | 303.5 |
| 9° | 302.6 | 301.9 | 301.7 | 302.5 | 302.8 | 302.7 |
| 9.5° | 302.1 | 301.2 | 301.4 | 301.9 | 302.4 | 301.8 |
| 10° | 301.4 | 300.8 | 301.3 | 301.6 | 301.6 | 301.7 |
| 10.5° | 300.5 | 300.2 | 300.3 | 300.6 | 301.1 | 300.7 |
| 11° | 300.5 | 300.0 | 300.0 | 300.0 | 299.7 | 300.0 |
| 11.5° | 299.4 | 299.3 | 299.3 | 299.0 | 299.2 | 299.4 |
| 12° | 299.0 | 298.0 | 297.5 | 298.2 | 298.6 | 298.3 |
| 12.5° | 297.7 | 297.1 | 296.6 | 297.5 | 297.4 | 297.4 |
| 13° | 296.4 | 296.0 | 296.1 | 296.9 | 296.8 | 297.2 |
| 13.5° | 295.8 | 295.0 | 295.6 | 296.0 | 295.9 | 296.1 |
| 14° | 295.3 | 293.8 | 294.5 | 295.0 | 295.1 | 295.3 |
| 14.5° | 294.1 | 293.2 | 293.4 | 293.8 | 293.6 | 294.3 |
| 15° | 293.0 | 291.9 | 292.7 | 292.4 | 293.3 | 293.6 |
| 15.5° | 291.7 | 290.7 | 291.1 | 291.5 | 292.1 | 292.5 |
| 16° | 290.6 | 289.6 | 290.1 | 290.1 | 290.8 | 291.2 |
| 16.5° | 289.8 | 288.4 | 289.0 | 290.1 | 289.7 | 290.0 |
| 17° | 288.6 | 287.4 | 288.0 | 288.6 | 289.1 | 289.0 |
| 17.5° | 287.5 | 286.5 | 287.2 | 286.6 | 287.5 | 287.6 |
| 18° | 286.6 | 285.1 | 285.7 | 285.8 | 286.0 | 286.7 |
| 18.5° | 284.8 | 284.4 | 283.9 | 284.4 | 285.2 | 284.8 |
| 19° | 283.8 | 283.3 | 282.7 | 283.9 | 283.9 | 284.2 |
| 19.5° | 282.6 | 281.8 | 281.5 | 282.1 | 282.9 | 283.2 |
| 20° | 281.2 | 280.7 | 280.1 | 281.0 | 281.6 | 282.2 |
| 20.5° | 279.4 | 279.2 | 278.9 | 280.0 | 280.4 | 281.0 |
| 21° | 278.3 | 277.6 | 277.7 | 278.1 | 278.6 | 279.4 |



TEST NUMBER: P639492

CATALOG NUMBER: RL56069FSD2W1EWH -600LM -4000K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|-------|--------|-------|--------|-------|
| 22.5° | 274.4 | 272.6 | 272.9 | 274.0 | 274.1 | 275.5 |
| 23° | 272.6 | 271.3 | 271.3 | 272.6 | 273.2 | 274.2 |
| 23.5° | 271.3 | 269.6 | 270.1 | 270.9 | 271.5 | 272.8 |
| 24° | 269.5 | 268.3 | 268.5 | 269.0 | 269.8 | 271.5 |
| 24.5° | 268.0 | 266.3 | 266.8 | 267.7 | 268.4 | 269.4 |
| 25° | 266.3 | 264.4 | 265.1 | 266.4 | 267.0 | 268.5 |
| 25.5° | 264.4 | 263.1 | 263.3 | 264.6 | 265.2 | 266.3 |
| 26° | 263.0 | 261.4 | 261.9 | 262.8 | 263.9 | 264.9 |
| 26.5° | 261.3 | 259.5 | 260.3 | 261.0 | 261.9 | 263.8 |
| 27° | 259.4 | 257.9 | 258.3 | 259.4 | 260.2 | 261.1 |
| 27.5° | 257.6 | 256.0 | 256.4 | 257.8 | 258.6 | 259.4 |
| 28° | 255.9 | 254.8 | 254.8 | 256.6 | 256.7 | 257.6 |
| 28.5° | 254.2 | 252.7 | 253.0 | 254.3 | 254.8 | 255.7 |
| 29° | 252.1 | 250.7 | 251.1 | 252.4 | 253.0 | 253.9 |
| 29.5° | 250.0 | 248.4 | 249.2 | 250.2 | 251.1 | 252.3 |
| 30° | 248.2 | 246.8 | 247.0 | 248.5 | 249.4 | 250.4 |
| 30.5° | 246.3 | 245.0 | 245.2 | 246.7 | 247.3 | 248.2 |
| 31° | 244.4 | 243.2 | 243.2 | 244.9 | 245.3 | 246.0 |
| 31.5° | 242.6 | 241.3 | 241.2 | 242.5 | 243.4 | 244.2 |
| 32° | 240.1 | 239.2 | 239.0 | 240.5 | 241.6 | 242.4 |
| 32.5° | 238.0 | 237.0 | 237.0 | 238.2 | 239.6 | 240.5 |
| 33° | 235.9 | 234.4 | 235.1 | 236.3 | 237.6 | 238.6 |
| 33.5° | 233.9 | 232.7 | 233.1 | 234.3 | 235.4 | 236.5 |
| 34° | 231.9 | 230.3 | 230.8 | 232.0 | 233.4 | 234.6 |
| 34.5° | 229.9 | 228.3 | 228.8 | 230.2 | 231.3 | 232.4 |
| 35° | 227.9 | 226.4 | 226.6 | 228.0 | 229.3 | 230.1 |
| 35.5° | 225.6 | 224.5 | 224.5 | 225.6 | 226.8 | 228.1 |
| 36° | 223.0 | 222.2 | 222.5 | 223.7 | 224.8 | 225.5 |
| 36.5° | 221.0 | 219.9 | 219.9 | 221.2 | 222.2 | 223.6 |
| 37° | 219.0 | 217.7 | 217.4 | 219.1 | 220.3 | 221.3 |
| 37.5° | 216.6 | 215.1 | 215.2 | 216.5 | 218.0 | 219.0 |
| 38° | 214.0 | 212.6 | 213.1 | 214.2 | 215.6 | 216.2 |
| 38.5° | 211.6 | 210.0 | 210.9 | 211.9 | 212.9 | 213.9 |
| 39° | 209.2 | 207.7 | 208.1 | 209.4 | 210.4 | 211.6 |
| 39.5° | 206.3 | 205.6 | 205.7 | 207.2 | 207.9 | 208.9 |
| 40° | 203.9 | 203.0 | 203.0 | 204.6 | 205.5 | 206.3 |
| 40.5° | 201.4 | 200.5 | 200.9 | 202.0 | 202.7 | 204.0 |
| 41° | 198.5 | 197.6 | 198.2 | 199.5 | 200.2 | 201.2 |
| 41.5° | 196.2 | 194.4 | 195.6 | 196.9 | 197.6 | 198.5 |
| 42° | 193.6 | 191.9 | 193.1 | 193.9 | 194.9 | 195.7 |
| 42.5° | 190.5 | 189.4 | 190.0 | 191.1 | 192.4 | 192.9 |
| 43° | 187.8 | 186.7 | 186.9 | 188.4 | 189.5 | 190.2 |
| 43.5° | 184.8 | 184.0 | 184.0 | 185.6 | 186.7 | 187.3 |



TEST NUMBER: P639492

CATALOG NUMBER: RL56069FSD2W1EWH -600LM -4000K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|-------|--------|-------|--------|-------|
| 45° | 176.4 | 174.9 | 175.5 | 176.9 | 177.9 | 178.5 |
| 45.5° | 173.4 | 172.1 | 172.6 | 174.1 | 174.7 | 175.5 |
| 46° | 170.4 | 169.2 | 169.7 | 171.5 | 172.2 | 172.5 |
| 46.5° | 167.2 | 166.3 | 167.1 | 168.2 | 168.9 | 169.3 |
| 47° | 164.4 | 163.4 | 163.8 | 165.2 | 166.0 | 166.6 |
| 47.5° | 161.4 | 160.3 | 161.1 | 162.4 | 162.7 | 163.2 |
| 48° | 158.4 | 157.4 | 157.9 | 159.5 | 159.9 | 160.2 |
| 48.5° | 155.2 | 154.4 | 155.1 | 156.0 | 156.7 | 157.2 |
| 49° | 151.9 | 151.2 | 152.2 | 153.3 | 153.7 | 153.9 |
| 49.5° | 149.0 | 148.4 | 149.1 | 150.3 | 150.4 | 150.9 |
| 50° | 146.3 | 145.2 | 146.5 | 147.3 | 147.2 | 147.6 |
| 50.5° | 142.9 | 142.3 | 143.2 | 144.2 | 144.6 | 144.7 |
| 51° | 139.8 | 139.3 | 140.4 | 141.2 | 141.5 | 141.4 |
| 51.5° | 136.7 | 136.5 | 137.0 | 138.2 | 138.3 | 138.3 |
| 52° | 133.8 | 133.3 | 134.1 | 135.1 | 134.9 | 134.8 |
| 52.5° | 130.7 | 130.4 | 131.3 | 132.0 | 131.9 | 131.9 |
| 53° | 127.8 | 127.3 | 128.5 | 129.2 | 129.0 | 128.8 |
| 53.5° | 124.8 | 124.3 | 125.2 | 126.0 | 125.9 | 125.6 |
| 54° | 121.7 | 121.4 | 122.1 | 123.2 | 122.6 | 122.5 |
| 54.5° | 118.8 | 118.2 | 118.9 | 120.2 | 119.8 | 119.7 |
| 55° | 115.8 | 115.5 | 116.2 | 117.0 | 116.6 | 116.3 |
| 55.5° | 112.8 | 112.4 | 113.2 | 113.7 | 113.6 | 113.3 |
| 56° | 109.9 | 109.5 | 110.0 | 110.9 | 110.6 | 110.3 |
| 56.5° | 107.0 | 106.3 | 107.1 | 108.1 | 107.8 | 107.3 |
| 57° | 104.1 | 103.6 | 104.4 | 105.1 | 104.8 | 104.3 |
| 57.5° | 101.0 | 100.4 | 101.5 | 102.0 | 101.6 | 101.2 |
| 58° | 98.0 | 97.6 | 98.5 | 99.1 | 98.8 | 98.2 |
| 58.5° | 95.3 | 94.8 | 95.6 | 96.3 | 95.7 | 95.4 |
| 59° | 92.4 | 92.1 | 92.6 | 93.5 | 92.9 | 92.5 |
| 59.5° | 89.5 | 89.1 | 90.0 | 90.6 | 90.1 | 89.7 |
| 60° | 86.7 | 86.4 | 87.1 | 87.9 | 87.2 | 86.9 |
| 60.5° | 84.1 | 83.6 | 84.3 | 85.0 | 84.5 | 84.1 |
| 61° | 81.4 | 81.0 | 81.7 | 82.2 | 81.8 | 81.3 |
| 61.5° | 78.4 | 78.4 | 79.0 | 79.5 | 79.1 | 78.7 |
| 62° | 75.7 | 75.5 | 76.4 | 76.6 | 76.1 | 75.9 |
| 62.5° | 73.2 | 73.0 | 73.7 | 74.0 | 73.5 | 73.2 |
| 63° | 70.5 | 70.5 | 71.0 | 71.5 | 71.0 | 70.6 |
| 63.5° | 67.9 | 68.0 | 68.7 | 68.9 | 68.4 | 68.0 |
| 64° | 65.3 | 65.5 | 65.9 | 66.4 | 65.9 | 65.5 |
| 64.5° | 62.8 | 62.9 | 63.5 | 63.9 | 63.4 | 63.1 |
| 65° | 60.5 | 60.6 | 61.1 | 61.4 | 60.9 | 60.8 |
| 65.5° | 58.1 | 58.1 | 58.9 | 58.9 | 58.6 | 58.4 |
| 66° | 55.6 | 55.7 | 56.3 | 56.7 | 56.2 | 56.0 |



TEST NUMBER: P639492
 CATALOG NUMBER: RL56069FSD2W1EWH -600LM -4000K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|------|--------|------|--------|------|
| 67.5° | 48.9 | 49.0 | 49.6 | 49.8 | 49.6 | 49.5 |
| 68° | 46.7 | 46.9 | 47.4 | 47.6 | 47.4 | 47.4 |
| 68.5° | 44.5 | 44.8 | 45.2 | 45.5 | 45.4 | 45.4 |
| 69° | 42.4 | 42.6 | 43.1 | 43.4 | 43.3 | 43.3 |
| 69.5° | 40.4 | 40.6 | 41.0 | 41.3 | 41.2 | 41.3 |
| 70° | 38.5 | 38.4 | 39.0 | 39.3 | 39.2 | 39.3 |
| 70.5° | 36.7 | 36.4 | 37.1 | 37.3 | 37.4 | 37.5 |
| 71° | 34.7 | 34.5 | 34.9 | 35.4 | 35.5 | 35.6 |
| 71.5° | 32.9 | 32.6 | 33.1 | 33.5 | 33.6 | 33.7 |
| 72° | 31.0 | 30.8 | 31.2 | 31.6 | 31.8 | 32.0 |
| 72.5° | 29.3 | 28.9 | 29.3 | 29.8 | 29.9 | 30.1 |
| 73° | 27.5 | 27.1 | 27.5 | 28.0 | 28.2 | 28.4 |
| 73.5° | 25.9 | 25.4 | 25.7 | 26.2 | 26.6 | 26.8 |
| 74° | 24.3 | 23.7 | 24.1 | 24.7 | 24.9 | 25.4 |
| 74.5° | 22.7 | 22.2 | 22.6 | 23.0 | 23.5 | 23.8 |
| 75° | 21.2 | 20.8 | 21.1 | 21.6 | 22.0 | 22.5 |
| 75.5° | 19.8 | 19.3 | 19.7 | 20.2 | 20.5 | 21.0 |
| 76° | 18.4 | 18.0 | 18.3 | 18.8 | 19.3 | 19.7 |
| 76.5° | 17.1 | 16.7 | 17.0 | 17.5 | 18.0 | 18.4 |
| 77° | 15.8 | 15.5 | 15.8 | 16.3 | 16.7 | 17.2 |
| 77.5° | 14.6 | 14.4 | 14.7 | 15.1 | 15.6 | 16.0 |
| 78° | 13.5 | 13.2 | 13.5 | 14.0 | 14.5 | 14.9 |
| 78.5° | 12.5 | 12.3 | 12.6 | 13.0 | 13.5 | 13.9 |
| 79° | 11.5 | 11.4 | 11.7 | 12.1 | 12.6 | 13.0 |
| 79.5° | 10.6 | 10.5 | 10.7 | 11.2 | 11.7 | 12.1 |
| 80° | 9.7 | 9.7 | 10.0 | 10.4 | 10.8 | 11.2 |
| 80.5° | 8.9 | 9.0 | 9.2 | 9.6 | 10.1 | 10.4 |
| 81° | 8.2 | 8.4 | 8.6 | 8.9 | 9.3 | 9.7 |
| 81.5° | 7.6 | 7.8 | 8.0 | 8.3 | 8.6 | 8.9 |
| 82° | 7.0 | 7.2 | 7.4 | 7.7 | 8.0 | 8.3 |
| 82.5° | 6.4 | 6.6 | 6.8 | 7.1 | 7.4 | 7.7 |
| 83° | 5.9 | 6.0 | 6.2 | 6.5 | 6.8 | 7.1 |
| 83.5° | 5.2 | 5.5 | 5.6 | 6.0 | 6.3 | 6.6 |
| 84° | 4.7 | 4.9 | 5.1 | 5.4 | 5.7 | 6.1 |
| 84.5° | 4.1 | 4.3 | 4.5 | 4.9 | 5.2 | 5.5 |
| 85° | 3.5 | 3.8 | 4.0 | 4.3 | 4.6 | 5.0 |
| 85.5° | 3.0 | 3.2 | 3.4 | 3.8 | 4.1 | 4.4 |
| 86° | 2.5 | 2.8 | 3.0 | 3.2 | 3.5 | 3.9 |
| 86.5° | 2.1 | 2.2 | 2.4 | 2.7 | 3.1 | 3.3 |
| 87° | 1.5 | 1.7 | 1.9 | 2.2 | 2.5 | 2.8 |
| 87.5° | 1.0 | 1.2 | 1.4 | 1.7 | 2.0 | 2.3 |
| 88° | 0.5 | 0.7 | 0.8 | 1.2 | 1.5 | 1.8 |
| 88.5° | 0.1 | 0.3 | 0.5 | 0.7 | 1.0 | 1.4 |



TEST NUMBER: P639492
CATALOG NUMBER: RL56069FSD2W1EWH -600LM -4000K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-----|--------|------|--------|------|--------|------|
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 |

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270° - · - · 135°-315°

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





| | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 21.5° | 278.4 | 279.9 | 280.8 | 281.8 | 282.0 | 282.4 | 282.2 | 280.7 | 279.6 | 279.2 | 277.9 |
| 22° | 276.7 | 278.3 | 279.1 | 280.6 | 280.4 | 281.3 | 280.6 | 279.8 | 278.3 | 278.0 | 276.3 |



| | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 44° | 184.2 | 186.8 | 188.6 | 189.9 | 190.5 | 190.5 | 189.5 | 188.2 | 186.2 | 185.1 | 183.2 |
| 44.5° | 181.6 | 183.8 | 185.2 | 186.7 | 187.4 | 187.1 | 186.8 | 185.3 | 183.5 | 181.8 | 180.0 |



| | | | | | | | | | | | |
|-------|------|------|------|------|------|------|------|------|------|------|------|
| 66.5° | 53.8 | 54.5 | 55.4 | 55.9 | 55.9 | 55.4 | 54.8 | 54.0 | 53.4 | 53.2 | 53.1 |
| 67° | 51.7 | 52.3 | 53.2 | 53.6 | 53.7 | 53.1 | 52.4 | 51.7 | 51.1 | 51.0 | 50.7 |



| | | | | | | | | | | | |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 89° | 0.8 | 1.2 | 1.4 | 1.5 | 1.3 | 1.1 | 0.8 | 0.4 | 0.2 | 0.0 | 0.0 |
| 89.5° | 0.4 | 0.7 | 1.0 | 1.0 | 0.9 | 0.7 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 |

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Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





| | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|
| 21.5° | 277.1 | 275.9 | 276.1 | 276.6 | 277.4 | 278.4 |
| 22° | 275.3 | 274.0 | 274.8 | 275.5 | 275.7 | 276.7 |



| | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|
| 44° | 182.0 | 180.9 | 181.3 | 182.9 | 183.9 | 184.2 |
| 44.5° | 179.4 | 177.8 | 178.4 | 180.3 | 180.8 | 181.6 |



| | | | | | | |
|-------|------|------|------|------|------|------|
| 66.5° | 53.3 | 53.4 | 54.0 | 54.3 | 54.0 | 53.8 |
| 67° | 51.1 | 51.3 | 51.8 | 52.1 | 51.8 | 51.7 |

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



| | | | | | | |
|-------|-----|-----|-----|-----|-----|-----|
| 89° | 0.0 | 0.1 | 0.2 | 0.3 | 0.5 | 0.8 |
| 89.5° | 0.0 | 0.0 | 0.0 | 0.1 | 0.2 | 0.4 |

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Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)